

Specifications



RGD3202W



RGD2401W



RGD2102W



RGD2101W

Model Variation	Non-Touchscreen, Touchscreen, NVIS	Non-Touchscreen, Touchscreen, NVIS	Non-Touchscreen, Touchscreen, NVIS	Non-Touchscreen, Touchscreen
Panel				
Backlight	LED	LED	LED	LED
Size	32.0"	24.1"	21.5"	21.5"
Native Resolution	3840 x 2160 (16:9 aspect ratio)	1920 x 1200 (16:10 aspect ratio)	1920 x 1080 (16:9 aspect ratio)	1920 x 1080 (16:9 aspect ratio)
Viewable Image Size (H x V)	708.5 x 398.5 mm	518.4 x 324 mm	476.6 x 268.1 mm	476.6 x 268.1 mm
Display Colors	1.07 billion (10-bit display)	16.77 million (8-bit display)	16.77 million (8-bit display)	16.77 million (8-bit display)
Viewing Angles (H / V, typical)	178° / 178°	178° / 178°	178° / 178°	178° / 178°
Brightness (typical)	350 cd/m²	350 cd/m²	350 cd/m²	350 cd/m²
Contrast Ratio (typical)	1350:1	1500:1	5000:1	5000:1
Response Time (typical)	18 ms	18 ms	25 ms	25 ms
Touch Panel				
Type	Projected Capacitive	Projected Capacitive	Projected Capacitive	Analog Resistive
Touch Points	10	5	5	1
Surface Treatment	Anti-Glare coating, Anti-Fingerprint coating	Anti-Glare coating	Anti-Glare coating, Anti-Fingerprint coating	Anti-Glare coating
Communication Protocol	USB	USB	USB	USB
Surface Hardness	5 H	5 H	5 H	3 H
Compatible OS	Windows 11, Windows 10 (64-bit, 32-bit), Linux®	Windows 11, Windows 10 (64-bit, 32-bit), Linux	Windows 11, Windows 10 (64-bit, 32-bit), Linux	Windows 10 (64-bit, 32-bit), Linux
Video Signals				
Input Terminals	DisplayPort™ x 2, HDMI® x 2, 12G-SDI (optional)	D-Sub, DVI-D x 2, BNC (3G-SDI) x 2	D-Sub, DVI-D x 2, BNC (3G-SDI) x 2	D-Sub, DVI-D x 2, BNC (3G-SDI) x 2
Output Terminals	-	BNC (3G-SDI) x 2	BNC (3G-SDI) x 2	BNC (3G-SDI) x 2
Digital Scanning Frequency (H / V)	31 - 135 kHz / 29 - 61 Hz	31 - 76 kHz / 59 - 61 Hz	31 - 76 kHz / 59 - 61 Hz	31 - 76 kHz / 59 - 61 Hz
Analog Scanning Frequency (H / V)	-	31 - 76 kHz / 59 - 61 Hz	31 - 76 kHz / 59 - 61 Hz	31 - 76 kHz / 59 - 61 Hz
Sync Formats	Separate	Separate, Composite, Sync-on-Green	Separate, Composite, Sync-on-Green	Separate, Composite, Sync-on-Green
USB				
Upstream	USB 2.0: Type-B	USB 2.0: Type-B	USB 2.0: Type-B	USB 2.0: Type-B
Power				
Power Connector	MIL-DTL-38999 Series III	MIL-DTL-38999 Series III	MIL-DTL-38999 Series III	MIL-DTL-38999 Series III
Power Requirements	DC 18 - 36 V MIL-STD-704F	DC 18 - 36 V MIL-STD-704F	DC 18 - 36 V MIL-STD-704F	DC 18 - 36 V MIL-STD-704F
Maximum Power Consumption	108 W	63 W	61 W	44 W
Features & Functions				
Communication Interface	USB, RS-232C, RS-485	USB, RS-232C	USB, RS-232C	USB, RS-232C
Physical Specifications				
Dimensions (Landscape, W x H x D)	30.512 x 18.760 x 4.291 in (775 x 476.5 x 109 mm)	22.835 x 16.142 x 3.524 in (580 x 410 x 89.5 mm)	21.201 x 13.701 x 3.15 in (538.5 x 348 x 80 mm)	20.791 x 12.748 x 3.089 in (528.1 x 323.8 x 78.5 mm)
Net Weight	37 lbs (16.8 kg)	20.5 lbs (9.3 kg)	22 lbs (10 kg)	18.5 lbs (8.4 kg)
Environmental Requirements				
Operating Temperature	-20 to 55 °C MIL-STD-810G, Method 501.6/502.6 Proc. II	-20 to 55 °C MIL-STD-810G, Method 501.6/502.6 Proc. II	-20 to 55 °C MIL-STD-810G, Method 501.6/502.6 Proc. II	-20 to 55 °C MIL-STD-810G, Method 501.6/502.6 Proc. II
Non-Operating Temperature	-40 to 71 °C MIL-STD-810G, Method 501.6/502.6 Proc. I	-40 to 71 °C MIL-STD-810G, Method 501.6/502.6 Proc. I	-40 to 71 °C MIL-STD-810G, Method 501.6/502.6 Proc. I	-40 to 71 °C MIL-STD-810G, Method 501.6/502.6 Proc. I
Operating Humidity (R.H., non condensing)	95% R.H. @max. 40 °C MIL-STD-810G, Method 507.6	95% R.H. @max. 60 °C MIL-STD-810G, Method 507.6	95% R.H. @max. 60 °C MIL-STD-810G, Method 507.6	95% R.H. @max. 40 °C MIL-STD-810G, Method 507.6
Vibration	MIL-STD-810G, Method 514.7 Proc. I MIL-STD-167-1 Type 1	MIL-STD-810G, Method 514.7 Proc. I MIL-STD-167-1 Type 1	MIL-STD-810G, Method 514.7 Proc. I MIL-STD-167-1 Type 1	MIL-STD-810G, Method 514.7 Proc. I MIL-STD-167-1 Type 1
Shock	20 g - 11 ms, Sawtooth MIL-STD-810G, Method 516.7 MIL-DTL-901E Lightweight Grade A	20 g - 11 ms, Sawtooth MIL-STD-810G, Method 516.7	20 g - 11 ms, Sawtooth MIL-STD-810G, Method 516.7	20 g - 11 ms, Sawtooth MIL-STD-810G, Method 516.7
Operating Altitude	0 to 16,500 ft MIL-STD-810G, Method 500.6	0 to 10,000 ft MIL-STD-810G, Method 500.6	0 to 16,500 ft MIL-STD-810G, Method 500.6	0 to 10,000 ft MIL-STD-810G, Method 500.6
Non-Operating Altitude	0 to 40,000 ft MIL-STD-810G, Method 500.6	0 to 40,000 ft MIL-STD-810G, Method 500.6	0 to 40,000 ft MIL-STD-810G, Method 500.6	0 to 40,000 ft MIL-STD-810G, Method 500.6
Degree of Protection	IP65 (front), IP2X (rear)	IP65 (front), IP2X (rear)	IP65 (front), IP2X (rear)	IP65 (front), IP2X (rear)
Certifications & Standards	MIL-STD-810G, MIL-STD-167-1, MIL-STD-704F, MIL-STD-461G, IEC 60529, CE, UKCA, FCC-A	MIL-STD-810G, MIL-STD-167-1, MIL-STD-704F, MIL-STD-461G, IEC 60529, CE, UKCA, FCC-A	MIL-STD-810G, MIL-STD-167-1, MIL-STD-704F, MIL-STD-461G, IEC 60529, CE, UKCA, FCC-A	MIL-STD-810G, MIL-STD-704F, MIL-STD-461G, IEC 60529, CE, UKCA, FCC-A
Customization				
Touch Panel	Optional	Optional	Optional	Optional
NVIS Support	Optional	Optional	Optional	-
Internal Heater	Optional	Optional	Optional	-
Image Enhancement Technology	Optional	Optional	Optional	Optional
SwitchLink Internal Switching Management Technology	Optional	-	-	-
Carrying Handles	Optional	Optional	Optional	Optional

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Rugged LCD Monitors

Talon®

EXTREME RELIABILITY FOR EVERY
DEPLOYMENT

Rugged Monitors Designed to Thrive in All Domains

The Talon series of COTS (commercial off-the-shelf) rugged LCD monitors offers a range of sizes, screen resolutions, and feature sets for displaying highly detailed rugged applications such as those used in naval display systems, target tracking, mission/ground control centers, and airborne ISR operations.

Adaptable to all military environments, Talon rugged monitors act as a second line of visibility to mission operators and provide personnel with peace of mind knowing every detail captured is displayed accurately. Talon monitors are manufactured and tested 100% in-house by EIZO for complete customization and full quality control.

Developed using the latest image technology, our military-grade LCD monitors offer real-time image enhancement capabilities, surface coatings for optimal viewing clarity, and are compatible with Night Vision Goggles (NVIS) for nighttime missions.



R&D and Manufacturing

- In-house development of main controller boards, auxiliary PCBs, power supplies, and other components
- ISO Class 1 Clean Room for touchscreen, optical bonding, and EMI mesh filter production
- Exclusive visual display hardware and software designed for rugged markets



Rigorous Quality Control

- On-site anechoic chambers for compliance with international industry-specific regulations
- Components made in-house to fit QC standards of each model and requirement
- Rigorous individual inspection of every monitor



Stable Supply

- Stable sourcing based on over 50 years of relationships with key suppliers
- Extended lifecycle support

Enhancing Mission Visibility with Unique Visual Technologies

EIZO offers its own unique image enhancement technology that increase mission situational awareness for raw video capture applications where a DVE (Degraded Visual Environment) is likely to occur. Image enhancement technology analyzes the content displayed on the screen pixel-by-pixel and enhances the areas most difficult for the human eye to distinguish, allowing operators to see more clearly through visual deterrents such as fog, smoke, snow, and rain.

Complete Customization for Ideal Functionality

- Optical bonding for improved visibility and durability
- Optional image enhancement technology
- Customizable LED backlight
- Optional sunlight readability (high brightness)
- Dimmable to less than 1 cd/m²
- Multitude of interfaces: BNC (3G-SDI), D-Sub mini 15 pin, DVI-D, USB, RS-232C
- NVIS support (MIL-STD-3009 compatible)
- SwitchLink internal switching management technology (keyboard, mouse, dynamic touch)

Rugged Design

In-House Durability Test Center

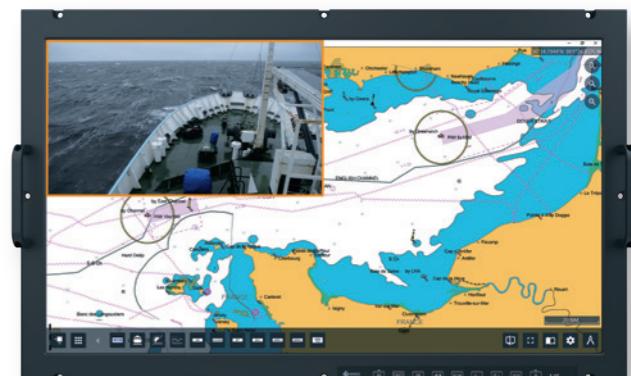
- Tested for MIL-STD-810 and MIL-STD-461 compliance
- Vibration and shock testing
- Humidity and decompression testing
- Extreme temperature testing

Designed for Harsh Environments

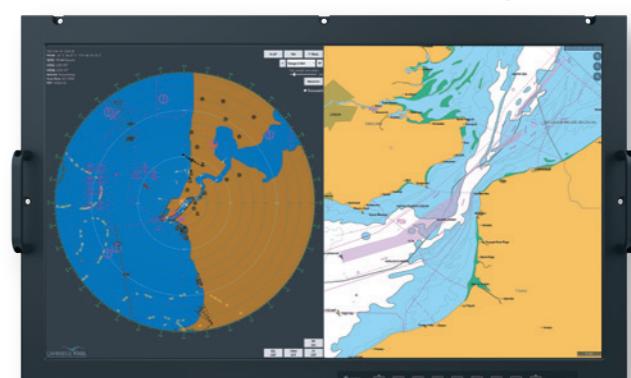
- Customized housing to fit any installation
- Customizable LED backlight
- Optical bonding for improved visibility and durability
- IP65 (front) protection
- PCB conformal coating for protecting circuitry in harsh environments
- Optional heater for protection against low temperatures
- Surface coatings

Various Sizes and Feature Sets

- Panel sizes of 21.5 to 32 inches (other sizes available upon request)
- Standard and touchscreen options (PCAP, analog resistive)
- Resolutions of up to 4K UHD (3840 x 2160)
- Optional monitor handles



Picture-in-Picture



Picture-by-Picture